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REPORT NO. 4

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PROCUREMENT SECTION
CURRENT SERIAL RECORDS

Cotton Fiber and Processing Test Results

CROP of

1971



Consumer and Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38117 October 1, 1971

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1971

Discussion of Test Results

Cotton Division laboratories of the Consumer and Marketing Service report that short staple samples tested from the Southwest are shorter, coarser, and weaker than through the same period last season. Shirley Analyser nonlint content and picker and card waste is lower. Yarns spun from these samples are weaker. Average spinning potential yarn number is lower than a year ago.

Medium staple samples tested from the Southwest are shorter and coarser than through the same period last season. Fiber strength at 1/8-inch gage is lower. Yarns spun from these samples are weaker. Average spinning potential yarn number is lower than last year.

This is the fourth of a series of reports of fiber and processing test results from the 1971 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as "Summary of Cotton Fiber and Processing Test Results, Crop of 1970", March 1971. These reports are published by the Standardization Section, Cotton Division, Consumer and Marketing Service, U. S. Department of Agriculture, P. O. Box 17723, Memphis, TN 38117.

Table 1.--Cotton:

Averages of fiber and processing tests from selected gin points in the United States through September 24, 1971

Staple group Area, and Crop year	Lots tested	Fibrograph 2.5% span	Fiber test results				Processing test results						
			50/2.5 unif.	Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn Quality		Skein str.	Imperf- ections	Spin. Potent.
					Zero gage	1/8" gage							
Short Staple: Southwest:	No.	Inches	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Lbs. 22s	Index	No. Carded	No. Yarn	No.
1970	5	0.97	46	4.4	87	22	3.7	6.2	96	120	22	49	
1971	6	0.95	45	4.8	82	20	2.9	6.0	84	120	23	38	
Medium Staple: Southwest:													
1970	25	1.09	46	4.4	85	23	3.0	5.8	107	121	20	68	
1971	23	1.06	45	4.6	86	22	3.0	5.6	103	122	19	59	
Medium Staple: Southwest:													
1970	17	1.06	46	4.6	87	22	3.0	5.5	103	123	19	59	
Significant dif- ference 2/			0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3

* ERRATA *

Please make the following pen and ink changes in Cotton Fiber and Processing Test Results,
Report #3, dated September 17, 1971

Medium Staple:

Southwest:

1970	17	1.06	46	4.6	87	22	3.0	5.5	103	123	19	59
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1/ Based on a limited number of samples of modal quality
2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1971

* 100 percent selected for tests, less than 100 percent in the area.

Table 3--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1971

Production Area, Classification & Sample Number		Fiber Test Results										Processing Test Results - Carded Yarns										
		Digital Fibrograph		Fiber Strength		S.A. Elong- at'n 1/8"		Color Raw Stock		Strength P & C		Elongation		Appearance Index		Imperfect's		Spin Potential				
No	Grade	2.5% span	Unif.	Mike Gage	Zero Gage	1/8" Gage	Non-Lint	Gra	Yel	22s or 27 tx	50s or 27 tx	50s or 27 tx	22s or 27 tx	50s or 27 tx	22s or 27 tx	50s or 27 tx	No	No	No	No		
32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	Pct	No	Pct	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No		
SOUTH CENTRAL																						
MISSOURI	SENAUTH	41	35	1.12	46	3.9	79	22	6.6	1.7	1	3	5.1	112	41	7.0	5.7	120	90	24	18	71
SOUTHWEST																						
SOUTH TEXAS	BISHOP	52	32	0.99	43	4.2	77	20	6.5	4.1	5	4	7.7	84	24	4.9	2.9	120	90	24	19	43
CORPUS CHRISTI	CORPUS CHRISTI	52	32	1.03	44	4.7	82	22	6.0	4.3	5	4	6.1	97	31	5.2	3.5	120	100	16	11	54
DANEVANG	DANEVANG	41	33	1.06	46	4.7	84	22	6.5	1.9	3	3	5.1	101	31	5.8	3.7	120	100	17	15	56
CENTRAL TEXAS																						
CROCKETT	CROCKETT	41	35	1.12	45	5.5	86	23	5.9	2.5	3	4	4.6	111	36	5.5	3.7	130	100	12	8	60
PEARSALL	PEARSALL	41	34	1.14	42	3.3	82	23	7.6	2.9	2	3	5.5	118	42	7.2	5.6	100	80	30	28	71
SUGARLAND	SUGARLAND	42	34	1.08	46	4.7	91	23	5.9	3.9	3	3	6.1	107	34	5.7	3.9	130	100	16	11	58

